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Recording paper esp. for high speed ink jet recording - contains added wet strength increasing agent, is coated and has non-sized surface

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Patent Family:

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Priority Applications (No Type Date): JP 75128002 A 19751024

Abstract (Basic): JP 52053012 A

Paper with sizing degree of <1 sec., sec., is prepd. from paper stock to which conventional wet strength increasing agent (I) for paper has been added, and coated with known coating compsn. (II) using sizing press., roller coater, etc. The coated paper shows sizing degree of <3 sec. and has non-sized surface. Drops of ink applied to the surface of paper are rapidly absorbed within paper the layers and spread of ink dots (blurring) on the surface is prevented.

(I) is e.g. polyamide resin. (esp. epichlorohydrin or epoxy modified glyoxal, (modified)melamine resin, (modified) urea resin, polyethylene imine (derivs) dialdehyde starch, dialdehyde gum, etc. The binder, for (II) is e.g. oxidised or modified starch, polyvinyl alcohol, sodium alginate, carboxymethylcellulose, water sol. cellulose deriv. casein, soya bean protein, synthetic resin emulsions, etc.

The binder may contain kaolin, CaCO₃, Al(OH)₃, titanium white or other fillers and pigments. Filler to be added to paper stock is pref. powdered silica or urea-formalin base organic filler, since they make the paper bulky and improve ink absorption. (II) is applied to the paper so that 1-5 (2-4) g/m² of the binder is attached to the paper.

Recording paper is esp. suitable for high speed ink jet recording which employs aq. ink and multi-colour recording in which >2 jet guns are used simultaneously.

Title Terms: RECORD; PAPER; HIGH; SPEED; INK; JET; RECORD; CONTAIN; ADD; WET; STRENGTH; INCREASE; AGENT; COATING; NON; SIZE; SURFACE

Derwent Class: A82; A97; F09; P75

International Patent Class (Additional): B41M-005/00; D21H-001/22

File Segment: CPl; EngPl